

DEC STD 012-11 UNIFIED NUMBERING CODE FOR VENDOR EQUIPMENT SERVICES (VES)

DOCUMENT IDENTIFIER: A-DS-EL00012-11-0 Rev A, 27-Dec-1989

ABSTRACT: This standard establishes the method of assigning FS class identifiers to services provided on packaged systems and options by third-party vendors contracted by Digital.

APPLICABILITY: This standard is mandatory for all vendor hardware products and subassemblies repaired, converted, and contracted by Digital.

STATUS: APPROVED 27-Dec-1989; use VTX SMC for current status.

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Responsible Department:	Vendor Equipment Services (VES)
Responsible Person:	Manon Lawson
SMC Writer:	Sheri Smaller

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Manon Lawson, Standard Owner

Eric Williams, Standards Process Manager

Direct requests for further information to:

Manon Lawson

MKO1-2/B9, DTN: 264-1185, MVDS01::LAWSON

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1 INTRODUCTION

1.1 PURPOSE

This standard defines the conventions and documents the assignment process used in the assignment of FS class identifiers for Vendor Equipment Services' (VES) maintenance charges on hardware products and subassemblies. This is a contract made between Digital and the vendor to provide service on vendor hardware.

The FS class identifier refers to maintenance charges on products not built or sold by Digital. Refer to *DEC STD 012-2 Unified Numbering Code for Part Identifier Class Codes* for more information.

1.2 SCOPE

This standard defines FS class identifiers for service charges by Digital on vendor products. The FS class numbers do not apply to the non-Digital product itself.

The definitions and procedures described in this standard apply throughout Digital.

1.3 CONTROL OF STANDARD

The control and ownership of this standard shall reside with the Corporate VES Group.

1.4 EFFECTIVE DATE

All VES FS-class part numbers assigned after 08-Aug-1988 shall meet the requirements of this standard.

All VES FS-class part numbers assigned prior to 08-Aug-1988 shall follow the old numbering scheme as documented in Appendix A.

1.5 RESPONSIBILITIES

1.5.1 Advisory Committee and Ownership

There is an Advisory Committee for this section of DEC STD 012.

Dick Best is the Domain Manager of the Digital Unified Numbering System responsible for all sections of DEC STD 012.

Manon Lawson is the Chairperson for the Advisory Committee and is the Standard Owner.

1.5.2 Part Number Requesters

Requesters of FS-class part identifiers are responsible for providing information as indicated in the part number assignment process to ensure proper numbering conventions are used. Additional information may also be requested to ensure proper procedures are followed. This ensures that maintenance charges are not assigned duplicate numbers, and that service's piece parts and cables are assigned numbers. Heading 3 describes the number assignment process.

1.5.3 VES Project Specialist

The VES Project Specialist is responsible for assigning FS-class part identifiers.

1.5.4 VES Engineering

The VES Engineering Group shall assist in defining part numbers if the numbering conventions are in conflict. This helps the project specialist if the product type is not clearly defined and avoids assigning numbers to parts of an option that would not normally be assigned an FS-class part identifier. In some instances, a VES FD-class part number for the Field Replaceable Unit (FRU) is appropriate; in others, variants may apply.

2 DEFINITION AND CLASSIFICATION OF FS-CLASS PART IDENTIFIERS

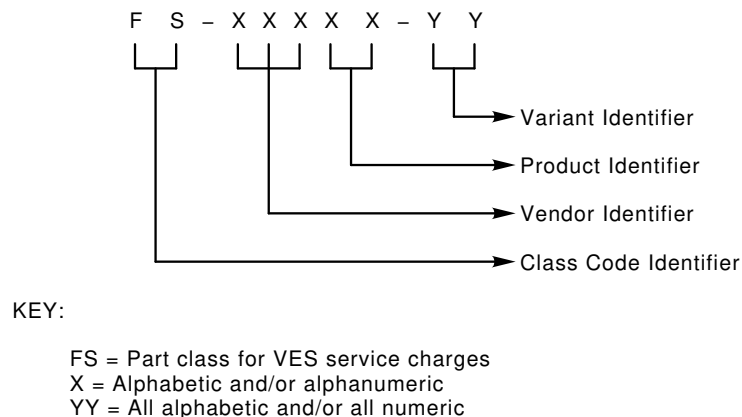
FS-class part identifiers provide the field with a part numbering scheme to track vendor product contracts and service charges. Additionally, the numbering scheme, when used on Labor Activity Reporting System (LARS) reporting, provides labor tracking for vendor products and assists in billing and invoicing.

Refer to DEC STD 012-2 for more information on part class identifiers. VES FS-class parts will not be subject to revision management at this time.

2.1 VES CLASS PART IDENTIFIER STRUCTURE

VES uses the standard 2-5-2 part identifier per *DEC STD 012-0 Part Identification Standard*.

The following subheads define the character fields that identify the vendor and product type. Each set of character fields (2-5-2) are separated by dashes.



2.1.1 VES Identifier (FS-xxxxx-xx)

The first two character fields are *FS*. This is a 2-character code that identifies this option as a VES and/or Field Service maintenance charge on hardware products. This is the basic class part code assignment per DEC STD 012-2.

2.1.2 Vendor Identifier (FS-XXXxx-xx)

The first three characters of the part base are the vendor identifier. These will likely be listed in alphabets (A through Z). However, combinations of letters and numbers are allowed in cases where the vendor's name consists of numbers (for example, 3PM). Codes must be unique for each vendor and must not be duplicated by using additional numbering schemes to identify the same vendor.

2.1.3 Product Identifier (FS-xxxXX-xx)

The next two characters are the product identifier, a combination of numbers and letters. This is a sequential 2-character code that identifies the line item of the vendor product. The numbering sequence shall be used as documented in DEC STD 012-0, for example, 01-99, A0-A9, B0-B9, ...Z0-Z9, and so on.

2.1.4 Product Variant (FS-xxxxx-AA) or (FS-xxxxx-NN)

The next two characters are the product variant. These are either alphabetic or numeric characters. Alphabetic characters shall be used to describe the product in general product types.

2.1.4.1 Product Group (FS-xxxxx-Xx)

The first character of the vendor product type shall indicate the general category of the product.

2.1.4.2 Vendor Product Variant (FS-xxxxx-xX)

The second character of the vendor product variant shall indicate the variation of the product. This differentiates products that are related, but different. A sequence of letters (A through Z) shall be used. A number (0 through 9) may be used in this position, if necessary. Where applicable, *A* shall denote 120V 60 Hz, while *B* shall denote 240V 50 Hz. Table 1 lists and identifies variant types.

Table 1: Product Variant Identifiers

Identifier	Description
A	Accessories
B	Broadband products
C	CD roms
E	Ethernet products
F	Labor only
G	Data communication equipment (modems, muxes)
H	High density systems
K	CPUs and systems
L	Line printers and plotters
M	Memories
N	Other networks
P	Personal Computers/Workstations
R	Disks RCs, RDs, RPs
S	Subcontracting services
T	Tape drives and controllers
U	Unit record equipment, card readers, punches
V	Video data terminals, displays, monitors
W	Wide area networks
Y	Miscellaneous

3 ASSIGNMENT PROCESS

3.1 MAKING THE REQUEST

All requests for FS-class part identifier assignments shall be made in writing to the responsible VES Project Specialist. These requests shall be made via All-in-1 mail, VAXmail, or hard copy sent via interoffice mail, United States mail, non-U.S. postal services, private carriers (such as Federal Express), or FAX. Phone requests shall not be honored.

3.1.1 Contents of Request

Requests for FS-class part identifiers must contain:

- Vendor name
- Vendor address and phone number
- Vendor contact name
- Original manufacturer (yes or no)
- Vendor model number
- Vendor model description (complete description necessary; refer to Appendix B)
- Product contact name, area, location
- Category (A, B, C, D, E)

A = Worldwide service by Digital Field Service (FS) branches

B = Area or country-wide (geography, for example: U.S., GIA, Europe) level support by Digital FS branches

C = FS district-level support of all services and materials

D = FS district-level support with availability of materials, training, and documentation from the corporate level

E = Area-level decision support used for account control; project that crosses area geographies

- Product/plan status (C, D, O, R)

C = Complete

D = Development

O = Obsolete

R = Retirement

If the product plan is complete, the following must be provided to PMIS System at YWO. This information shall be sent to the Project Specialist at PMIS::PMISADMIN.

- Date completed
- Basic Monthly Charge (BMC) pricing
- Service center pricing, if available
- Digital Service Monthly Charge (DSMC) pricing
- Copy of the service plan

3.2 REQUEST AUTHORIZATION

The VES Project Specialist shall determine whether a request for a described option will be honored, based on the assignment rationale per heading 4. If there is an exception not addressed in this standard, the request shall be reviewed by the VES Project Specialist, VES Engineering Group, and VES Management.

3.2.1 Engineering Support

All requests shall be reviewed and screened by a VES Support Engineer within each area or country, prior to requesting an FS-class part identifier. For example, U.S. Area requests shall be pre-approved by the Business Systems Group (BSG) in Westboro, prior to FS-class part identifier acknowledgment. Category A requests shall take priority and will be processed over other categories.

3.2.2 Entered Into Database

The information included in the original request shall be entered into the FS-class part identifier database by the VES Project Specialist. If that option already has a number assigned to it, the existing number shall be used with its modifications.

3.2.3 Acknowledgment

Within approximately five working days, the requester will receive a mail message containing the assigned FS-class part identifier.

3.3 REPORTING

Two reports are generated monthly and posted on Project Management Information System (PMIS): Pricing Report and VES Long Report. To access the PMIS System, send mail to PMIS::PMISADMIN.

4 ASSIGNMENT RATIONALE

The information in this heading shall be used as guidelines for selecting the specific line items of the project to be assigned a tracking FS-class part identifier.

It is important to keep in mind that FS-class part identifiers are primarily used to track revenue and expenses of a service option on vendor hardware. Therefore, it makes little sense to assign an FS-class part identifier to the power supply, keyboard, or other internal FRUs that must always be in place for the system to operate. Refer to *DEC STD 012-8 Field Service Part Identifier Conventions and Assignment Procedures* for more information. At the same time, if the project is designed for a specific function (for example, a keyboard), it would require its own FS-class part identifier.

Keeping this philosophy in mind, use the test cases in the following subheads to help determine if an option requires an FS-class part identifier.

4.1 GENERIC PRODUCTS

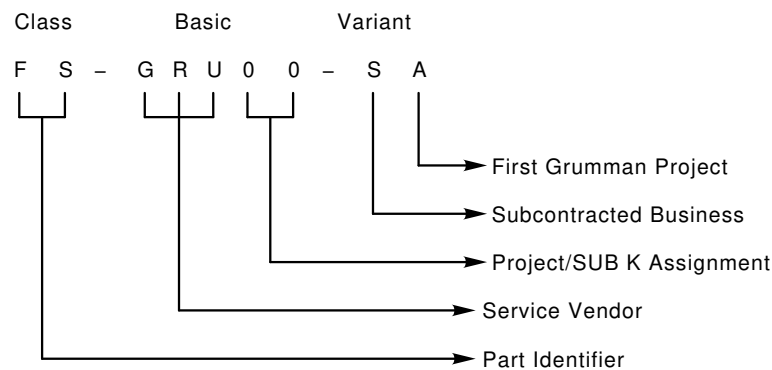
Many of today's products use the same generic FRUs or options. When evaluating the FRUs of a system, especially PCs, these generic products (FRUs or options) should be defined and listed under their own generic name. This allows for enhanced flexibility in the database and more comprehensive data tracking of business revenue. For example: the project is an IBM® PC and the Hayes® 1200B Internal 1200 bps Modem Option used in the IBM® PC system needs to be assigned a FS-class part identifier. This modem may be purchased from any Digital-approved source. The correct way to request an FS-class part identifier is to identify the internal modem as a Hayes® modem and not as an IBM® modem.

4.2 SUBCONTRACTING SERVICES

Products that are planned to be subcontracted to any service company shall be assigned separate FS-class part variants. This identifies the subcontracting pieces that may have different BMC pricing than similar products being serviced by Digital.

Subcontracted items may have more than one option assigned under one master FS-class part identifier.

The following is an example of SUB K project assignment for the Grumman Company, subcontracted in support of the United States Navy for 100+ Fairchild products.



The last two of the basic digits are assigned locally to differentiate between SUB K products (01-99).

The variant SA would be the first project. Subsequent projects or subcontracts would be written as: FS-GRU00-SA, -SB, -SC.

The actual plan shall contain paragraphs describing the project or subcontract, product types (in general terms) of equipment that are SUB K, and general terms of the agreement.

If the plan falls under Category B, more detail shall be included, plus a copy of the Business Order Agreement (BOA).

4.3 PACKAGED SYSTEMS

A packaged system may contain many different vendors' product under one enclosure. An example is Xerox® XPS-701. This is a packaged system with Digital, Maxtor, Micropolis, Sigma, and Emulex products. The Xerox® XPS-701 system is assigned an FS-class part identifier. The total system is also assigned one BMC that covers all these individual products. In the product plan, the generic products previously listed are shown in the Xerox® XPS-701 plan as individual products. The result is that the same FS-class part identifier used for Maxtor EXT-4380 in the Xerox® XPS-701 system may be applied to the Maxtor EXT-4380 in another system.

4.4 TEST CASES

FS-class part identifiers are to be assigned to major options of the project. One FS-class part identifier may relate to a group of options. Use these four test cases to help define what items are assigned an FS-class part identifier.

- If the difference between the variants of a specific model is just cables, number of ports, or ac power, then only one FS-class part identifier should be assigned for each variant.
- If the variant is a major functioning part of a higher level assembly, then identify it as a line item attached to the higher level assembly.
- If the difference in the model variants is in the mass storage media size, then assign that variant an FS-class part identifier.
- If there is a significant difference between the Maynard List Prices (MLP) of the model variants, then assign each variant an FS-class part identifier.

FS-class part identifiers shall not be assigned to the following items **unless** the MLP is significant to justify the need.

- Cables
- Cabinet enclosures
- Distribution panels
- Communication splitters, pads, amplifiers, taps (should be identified under the network FS-class part identifier)
- Keyboards
- Display stands
- Printer stands
- Power supplies
- Mouses
- Joysticks

APPENDIX A

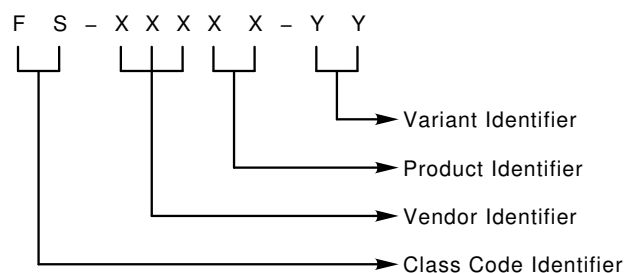
HISTORICAL PART NUMBERING SCHEME

NOTE

The following information applies to FS-class part identifiers assigned prior to 08-Aug-1988.

The VES standard for assigning a VES FS-class part identifier, which conforms to Digital's standard for assigning part class identifiers, follows.

- A 2-5-2 format shall be used per DEC STD 012-0.
- The first two-character fields are *FS*. This is a 2-character code that identifies this option as a VES product.
- The next five character fields identify the vendor and product.
 - The first three character fields are the vendor identifier and must be alphabetic (A through Z). This is a unique 3-character code that identifies the VES vendor.
 - The last two character fields are the product identifier and must be numerics (0 through 9). This is a unique 2-character code that identifies the model of the vendor's product.
- The last two character fields are the product variants, which should be alphabetic (A through Z). Numerics are allowed in the last character field, if necessary. This is a unique 2-character code that identifies the different variations of the vendor's product.
- Each set of character fields (2-5-2) are separated by dashes.



KEY:

FS = Part class for VES service charges
 X = Alphabetic and/or alphanumeric
 YY = All alphabetic and/or all numeric

APPENDIX B

HARDWARE OPTIONS DESCRIPTIONS

Descriptions must be complete when requesting an FS-class part identifier. Use the information in this appendix as a tool to provide a complete option description.

B.1 PRINTERS

B.1.1 Types of Printers

- Thermal
 - Standard paper
 - Special paper
- Laser
 - Engine
 - Fonts available
- Ink jet
- Impact
 - Drum
 - Band
 - Matrix

If it is an impact printer, the following additional information is needed.

- Print density (dots per inch)
 - Number of printable characters
 - Number of expanded characters
 - Number of special characters
- Character matrix (5 x 7, 7 x 9, 5 x 9)
- Alternate print mode
 - Near letter quality mode (high-density characters)
 - Correspondence mode (normal)
 - Draft mode (high speed, reduced dot density)
 - Graphics mode
 - Hardware selectable (graphics, HLQ, Cor, Dr)
 - Software selectable (graphics, HLQ, Cor, Dr)

- Printing direction (motion)
 - One way
 - Bidirectional

B.1.2 Operational Specifications

- Characters per Second (CPS)
- Sheets per Minute (SPM)
- Lines per Minute (LPM)
 - Number of printable characters
 - Number of expanded characters
 - Number of special characters

B.1.3 Physical Configuration

- Pedestal
- Tabletop
- Quietized cabinet

B.1.4 Interface

- Parallel, Serial, Tier
 - IBM®
 - Centronics
 - Data Products Corporation (DPC)
 - Other

B.1.5 Data Transmission Speed (Serial/Baud Rate)

- Fixed
 - Software selectable (1200, 4800, 9600)
 - Hardware selectable (1200, 4800, 9600)
- Variable
 - Software selectable (1200, 4800, 9600)
 - Hardware selectable (1200, 4800, 9600)

B.1.6 CPI (Pitch) Horizontal

- Fixed
 - Software selectable, in ranges (5 CPI, 6 CPI, 10 CPI)
 - Hardware selectable, in ranges (5 CPI, 6 CPI, 10 CPI)

- Variable
Software selectable, in ranges (5 CPI, 6 CPI, 10 CPI)
Hardware selectable, in ranges (5 CPI, 6 CPI, 10 CPI)

B.1.7 LPI (Pitch) Vertical

- Fixed
Software selectable, in ranges (5 LPI, 6 LPI, 10 LPI)
Hardware selectable, in ranges (5 LPI, 6 LPI, 10 LPI)
- Variable
Software selectable, in ranges (5 LPI, 6 LPI, 10 LPI)
Hardware selectable, in ranges (5 LPI, 6 LPI, 10 LPI)

B.1.8 Forms Handling

- Single sheet feeder
- Fanfold
- Roll
- Number of plies
- Bidirectional

B.2 TERMINALS

Video terminals or monitor displays shall include size, black and white, color, or graphics descriptions.

B.3 DISKS

The following are description requirements for disks.

- Size (5¼ inch, 8 inch, 10 inch)
- Type of drive (fixed media, removal media)
- Type of media (optical or magnetic)
- Type of interface (SCSI S/E, SCSI DIF, ESDI, SMD)
- Vendor model number (different from family name)

NOTE

Imprimis/CDC 9720-850 is a family name; the model number is PA8G. In this instance, there are approximately 10 models for this family and there are differences in the drive.

B.4 TAPE

The following are description requirements for tapes.

- Type of media (reel-to-reel, cartridge, magnetic, 8mm, 4mm)
- Type of interface (this requires complete type and may vary from vendor to vendor)
- Self-loading or manual (manual is the default)
- Drive speed (75 ips, 125 ips)
- Density (1600, 6250, 800)

APPENDIX C

REFERENCED DOCUMENTS

EL-Class Number	Document Title
EL-00012-00	<i>DEC STD 012-0 Part Identification Standard</i>
EL-00012-02	<i>DEC STD 012-2 Unified Numbering Code for Part Identifier Class Codes</i>
EL-00012-08	<i>DEC STD 012-8 Field Service Part Identifier Conventions and Assignment Procedures</i>

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